

## Abstract

A sensor (1) for determining the concentration of particles in gases, in particular of soot particles, has at least one substrate element (5), and a measuring area (12) between at least one first (10) and one second (15) measuring electrode, the two measuring electrodes (10, 15) being configured in such a way that by applying a voltage between the measuring electrodes (10, 15), an asymmetric electric field is formed on the measuring area (12). The sides (30, 35) of the first (10) and second (15) measuring electrodes, facing one another, may not be parallel to one another, for example. Furthermore, at least one measuring electrode (10, 15) may have a structure (45) along the side (30, 35) facing the other measuring electrode (15, 10) or along the finger electrodes (40).

15 (Figure 2b)

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